Title (en)

Infrared-blocking optical filter

Title (de

Infrarot blockierendes optisches Filter

Title (fr)

Filtre optique bloquant l'infrarouge

Publication

EP 0687923 A2 19951220 (EN)

Application

EP 95109253 A 19950614

Priority

JP 15640894 A 19940616

Abstract (en)

Disclosed herein is an infrared-blocking optical filter having optical properties that the transmittance to rays in a visible region is excellent while rays in a near infrared region, particularly, in a wavelength range longer than 1200 nm are cut off or attenuated with high efficiency. The infrared-blocking optical filter includes a transparent substrate and either of the following infrared-blocking films (A) and (B) provided on a surface of the transparent substrate. Film (A): an infrared-blocking film formed of a synthetic resin in which fine powder of a metal oxide material composed of indium oxide and/or tin oxide is dispersed; and Film (B): an infrared-blocking film formed of a deposit of a metal oxide material composed of indium oxide and/or tin oxide. The infrared-blocking film may be formed on a transparent support member to constitute an infrared-blocking composite film which is provided on a surface of the transparent substrate to form an infrared-blocking optical filter.

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G02B 5/22

IPC 8 full level

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CPC (source: EP US)

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Citation (applicant)

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